

ABSTRACT OF THE DISCLOSURE

A wafer polishing head for planarizing a wafer. The wafer polishing head comprises a carrier, a retaining ring, a first pressure chamber, a second pressure chamber and an automatic control system. The retaining ring is surrounding the carrier. The first pressure chamber having a first inner pressure is disposed above the retaining ring. The second pressure chamber having a second inner pressure is disposed on the carrier. The automatic control system is respectively coupled to the first pressure chamber and the second pressure chamber.